

Appln No. 09/223,431
Amdt date October 28, 2003
Reply to Office action of July 29, 2003

Amendments to the Claims:

Please amend Claims 1, 29 and 48 as shown. This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for providing voice titles for video programs recorded on a recording medium comprising:

recording video programs on the recording medium;

generating audio signals of titles for the recorded programs;

converting the audio signals to textual title signals and storing the textual title signals;

displaying on a screen a directory of the video programs recorded on the recording medium, wherein the directory includes textual titles associated with the displayed video programs and wherein the textual titles are generated from the textual title signals;

selecting one of the video programs from the directory; and

converting a stored textual title signal corresponding to the selected video program to an audio signal to apprise a user of the voice title of the selected video program.

2. (Previously presented) The method of claim 1, wherein the audio signal is generated while the video program is being recorded.

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3. (Previously presented) The method of claim 2, wherein the audio signal is converted to a textual title signal while the video program is being recorded.

4.-6. (Canceled)

7. (Previously presented) The method of claim 1, wherein storing the textual title signals includes transferring the textual title signals to a random access memory for later use to select programs for playback.

8.-9. (Canceled)

10. (Previously presented) The method of claim 7, further comprising recording in the random access memory with the stored textual title signal other data to assist in the playback of the recorded program.

11. (Previously presented) The method of claim 10, wherein the other data includes the recording medium location of the start of the recorded program.

12. (Previously presented) The method of claim 10, wherein the other data includes the length of the recorded program.

13. (Previously presented) The method of claim 10, wherein the other data includes voice title designations.

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14. (Previously presented) The method of claim 13,
wherein the voice title designations include the day and time of
recording.

15. (Previously presented) The method of claim 13,
wherein the voice title designations include the length of the
program.

16. (Canceled)

17. (Previously presented) The method of claim 10,
further comprising positioning the recording medium at the
beginning of a video program responsive to the other data.

18. (Canceled)

19. (Previously presented) The method of claim 1, further
comprising playing the selected video program.

20. (Previously presented) The method of claim 1, wherein
generating audio signals of titles includes speaking the titles
into a microphone.

21. (Previously presented) The method of claim 1, wherein
generating audio signals of titles includes speaking the titles
into a microphone contemporaneously with recording the video
program.

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22. (Previously presented) The method of claim 1, wherein displaying displays voice title designations for the recorded video programs for which audio signals are converted.

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23.-24. (Canceled)

25. (Previously presented) The method of claim 1, wherein displaying includes displaying the textual titles for the recorded video programs.

26. (Previously presented) The method of claim 1, wherein the stored textual title signals are alphanumeric textual signals.

27. (Previously presented) The method of claim 26, further comprising storing the alphanumeric textual signals in the random access memory.

28. (Previously presented) The method of claim 1, wherein storing the textual titles includes storing the textual titles in a memory location separate from a storage of the directory of the video programs recorded on the recording medium.

29. (Currently Amended) An apparatus for providing voice titles for video programs recorded on a recording medium comprising:

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means for recording video programs on the recording medium and for displaying on a screen a directory of the video programs recorded on the recording medium and for selecting one of the video programs from the directory, wherein the directory includes textual titles associated with the displayed video programs and wherein the textual titles are generated from the textual title signals; and

audio processing means, coupled to the means for recording video programs, for generating audio signals of titles for the recorded programs, converting the audio signals to textual title signals, storing the textual title signals, and for converting a stored textual title signal, corresponding to a selected video program, to an audio signal to apprise a user of the voice title of the selected video program.

30. (Previously presented) The apparatus of claim 29, wherein the audio processing means further comprises means for generating the audio signal while the video program is being recorded.

31. (Previously presented) The apparatus of claim 30, wherein the audio processing means further comprises means for converting the audio signal to a textual title signal while the video program is being recorded.

32. (Previously presented) The apparatus of claim 29, wherein the means for recording video programs includes a random

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access memory for storing textual title signals for later use to select programs for playback.

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33. (Previously presented) The apparatus of claim 32, wherein the random access memory includes means for storing with the stored textual title signal other data provided by the means for recording video programs to assist in the playback of the recorded program.

34. (Previously presented) The apparatus of claim 33, wherein the other data includes the recording medium location of the start of the recorded program.

35. (Previously presented) The apparatus of claim 33, wherein the other data includes the length of the recorded program.

36. (Previously presented) The apparatus of claim 33, wherein the other data includes voice title designations.

37. (Previously presented) The apparatus of claim 36, wherein the voice title designations include the day and time of recording.

38. (Previously presented) The apparatus of claim 36, wherein the voice title designations include the length of the program.

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39. (Previously presented) The apparatus of claim 33, wherein the means for recording video programs further comprises means for positioning the recording medium at the beginning of a video program responsive to the other data.

40. (Previously presented) The apparatus of claim 29, wherein the means for recording video programs further comprises means for playing the selected video program.

41. (Previously presented) The apparatus of claim 29, wherein the audio processing means further comprises a microphone for generating audio signals of titles by speaking the titles into the microphone.

42. (Previously presented) The apparatus of claim 29, wherein the audio processing means further comprises a microphone for generating audio signals of titles by speaking the titles into a microphone contemporaneously with recording the video program.

43. (Previously presented) The apparatus of claim 29, wherein the means for recording video programs further comprises means for displaying voice title designations for the recorded video programs for which audio signals are converted.

44. (Previously presented) The method of claim 29, wherein the means for recording video programs further comprises

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means for displaying the textual titles for the recorded video programs.

45. (Previously presented) The apparatus of claim 29, wherein the stored textual title signals are alphanumeric textual signals.

46. (Previously presented) The apparatus of claim 45, wherein the alphanumeric textual signals are stored in the random access memory.

47. (Previously presented) The apparatus of claim 29, further comprising the textual titles being stored in a memory location separate from a storage of the directory of the video programs recorded on the recording medium.

48. (Currently amended) An apparatus for providing voice title information for video programs recorded on a recording medium, comprising:

a random access memory;
a video program recording control logic controller;
a microprocessor random access memory controller coupled between the random access memory and the video program recording control logic controller; and
an audio input device coupled to the video program recording control logic controller and responsive to audio signals;

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the random access memory being coupled to the video program recording logic controller through a voice recognition circuit, such that audio signals are converted to textual title signals by the voice recognition circuit under the control of the video program logic controller and stored in the random access memory under the control of the microprocessor random access memory controller as stored textual title signals ~~corresponding to~~ for displaying textual titles of video programs recorded on the recording medium.

49. (Previously presented) The apparatus of claim 48, further comprising:

an audio output device coupled to the video program recording control logic controller; and

a voice synthesizer coupled between the random access memory and the video program recording control logic controller, such that the stored textual signals are converted under the control of the random access memory controller to audio signals corresponding to video programs recorded on the recording medium by the voice synthesizer and are output by the audio output device under the control of the video program recording control logic controller.

50. (Previously presented) A method for providing voice titles for video programs recorded on a recording medium comprising:

recording video programs on the recording medium;

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generating audio signals of titles for the recorded programs;

converting the audio signals to textual title signals and storing the textual title signals; and

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displaying on a screen a directory of the video programs recorded on the recording medium, the directory including textual titles derived from the stored textual title signals.

51. (Previously presented) The method of claim 50, wherein the audio signal is generated while the video program is being recorded.

52. (Previously presented) The method of claim 51, wherein the audio signal is converted to a textual title signal while the video program is being recorded.

53. (Previously presented) The method of claim 50, wherein storing the textual title signals includes transferring the textual title signals to a random access memory for later use to select programs for playback.

54. (Previously presented) The method of claim 53, further comprising recording in the random access memory with the stored textual title signal other data to assist in the playback of the recorded program.

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55. (Previously presented) The method of claim 54, further comprising positioning the recording medium at the beginning of a video program responsive to the other data.

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56. (Previously presented) The method of claim 50, further comprising playing the selected video program.

57. (Previously presented) The method of claim 50, wherein generating audio signals of titles includes speaking the titles into a microphone.

58. (Previously presented) The method of claim 50, wherein generating audio signals of titles includes speaking the titles into a microphone contemporaneously with recording the video program.

59. (Previously presented) The method of claim 50, wherein the stored textual title signals are alphanumeric textual signals.

60. (Previously presented) The method of claim 59, further comprising storing the alphanumeric textual signals in the random access memory.

61. (Previously presented) The method of claim 50, wherein storing the textual titles includes storing the textual titles in a memory location separate from a storage of the

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directory of the video programs recorded on the recording medium.

62. (Previously presented) An apparatus for providing voice titles for video programs recorded on a recording medium comprising:

means for recording video programs on the recording medium and for displaying on a screen a directory of the video programs recorded on the recording medium, the directory including textual titles derived from stored textual title signals; and

audio processing means, coupled to the means for recording video programs, for generating audio signals of titles for the recorded programs, converting the audio signals to textual title signals, and storing the textual title signals.

63. (Previously presented) The apparatus of claim 62, wherein the audio processing means further comprises means for generating the audio signal while the video program is being recorded.

64. (Previously presented) The apparatus of claim 62, wherein the means for recording video programs includes a random access memory for storing textual title signals for later use to select programs for playback.

65. (Previously presented) The apparatus of claim 64, wherein the random access memory includes means for storing with

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the stored textual title signal other data provided by the means for recording video programs to assist in the playback of the recorded program.

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66. (Previously presented) The apparatus of claim 65, wherein the means for recording video programs further comprises means for positioning the recording medium at the beginning of a video program responsive to the other data.

67. (Previously presented) The apparatus of claim 62, wherein the means for recording video programs further comprises means for playing the selected video program.

68. (Previously presented) The apparatus of claim 62, wherein the audio processing means further comprises a microphone for generating audio signals of titles by speaking the titles into the microphone.

69. (Previously presented) The apparatus of claim 62, wherein the audio processing means further comprises a microphone for generating audio signals of titles by speaking the titles into a microphone contemporaneously with recording the video program.

70. (Previously presented) The apparatus of claim 62, wherein the stored textual title signals are alphanumeric textual signals.

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71. (Previously presented) The apparatus of claim 70, wherein the alphanumeric textual signals are stored in the random access memory.

72. (Previously presented) The apparatus of claim 62, further comprising the textual titles being stored in a memory location separate from a storage of the directory of the video programs recorded on the recording medium.
